

Chapter 1: Monitor



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Chapter 1 Monitor

1.1 System Information

1.1.1 Login OLT

The default management address of the OLT is 192.168.168.1, the PC is configured as the address of the 192.168.168.X, and the network cable is connected to the MGMT port to access the OLT. The default user name and password are admin/admin.

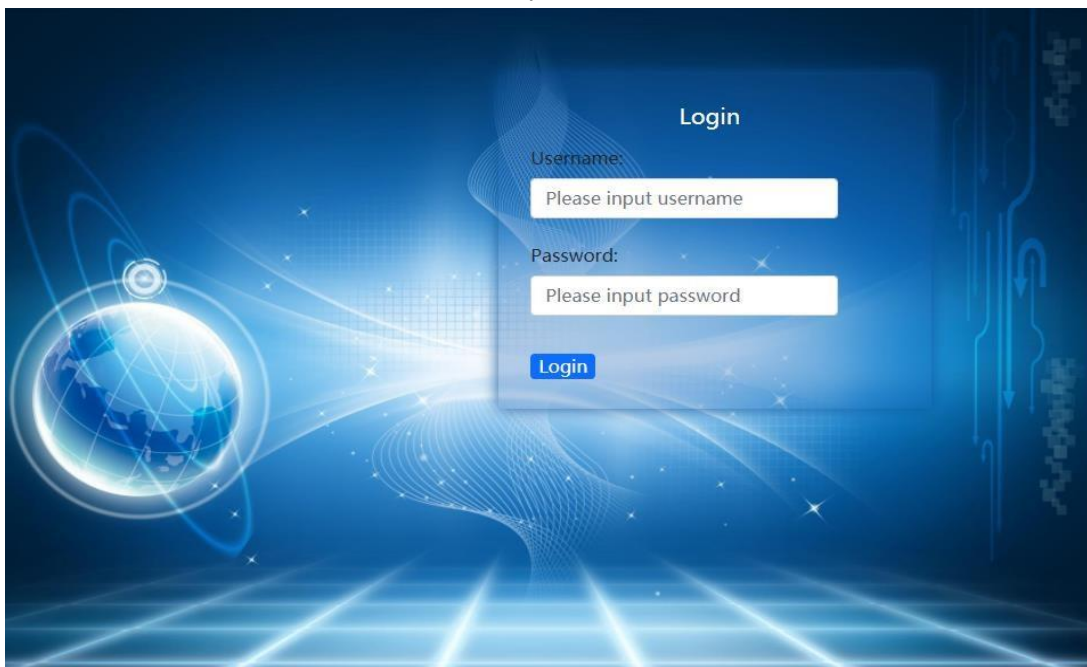


Figure 1-1

1.1.2 Device Information

1. Click Monitor-> System Information-> Device Information
2. This page displays information such as product description, hardware version, software version, and MAC address.

Device Information	
Product Name	G08 GPON Product
Hardware Version	V1.0
Software Version	V1.03.B01
MAC Address	00:00:00:23:23:23
System Startup Time	0-Days 23-Hours 8-Minutes 37-Seconds
Web Page Timeout (minute)	5
System Clock	Tue 2022/07/12 10:42:58 UTC +08:00
Board Temperature	36.625(°C)
CPU Occupancy	1%
Memory Occupancy	36% (1308 MB free)

Figure 1-2

1.2 Port Information

Port information displays device port status, port traffic statistics, and uplink optical module information.

1.2.1 Basic Information

1. Click Monitor-> Port Information-> Basic Information
2. This page displays the port status, priority, speed, MTU, description and other information.

Port	Status	Link	Priority	Set Speed	Actual Speed	MTU	Port Description (0-128 chars)
e0/0/1	enabled	down	0	auto	unknown	16356	
e0/0/2	enabled	down	0	auto	unknown	16356	
e0/0/3	enabled	down	0	auto	unknown	16356	
e0/0/4	enabled	down	0	auto	unknown	16356	
e0/1/1	enabled	down	0	full-10g	unknown	16356	
e0/1/2	enabled	down	0	full-10g	unknown	16356	
e0/1/3	enabled	down	0	full-10g	unknown	16356	
e0/1/4	enabled	down	0	full-10g	unknown	16356	
gpon0/2/1	enabled	up	0	full-2.5g	full-2.5g	16356	
gpon0/2/2	enabled	up	0	full-2.5g	full-2.5g	16356	
gpon0/2/3	enabled	up	0	full-2.5g	full-2.5g	16356	
gpon0/2/4	enabled	up	0	full-2.5g	full-2.5g	16356	
gpon0/2/5	enabled	up	0	full-2.5g	full-2.5g	16356	
gpon0/2/6	enabled	up	0	full-2.5g	full-2.5g	16356	
gpon0/2/7	enabled	up	0	full-2.5g	full-2.5g	16356	
gpon0/2/8	enabled	up	0	full-2.5g	full-2.5g	16356	

Figure 1-3

1.2.2 Basic Statistics

1. Click Monitor-> Port Information-> Basic Statistics
2. This page displays simple statistics about packets transmit and receive by the port.

Port	Receive Packets	Receive Bytes	Receive Errors	Transmit Packets	Transmit Bytes	Transmit Errors
e0/0/1	0	0	0	0	0	0
e0/0/2	0	0	0	0	0	0
e0/0/3	0	0	0	0	0	0
e0/0/4	0	0	0	0	0	0
e0/1/1	0	0	0	0	0	0
e0/1/2	0	0	0	0	0	0
e0/1/3	0	0	0	0	0	0
e0/1/4	0	0	0	0	0	0
gpon0/2/1	0	0	0	0	0	0
gpon0/2/2	0	0	0	0	0	0
gpon0/2/3	0	0	0	0	0	0
gpon0/2/4	0	0	0	0	0	0
gpon0/2/5	0	0	0	0	0	0
gpon0/2/6	0	0	0	0	0	0
gpon0/2/7	0	0	0	0	0	0
gpon0/2/8	0	0	0	0	0	0

Figure 1-4

1.2.3 Detail Statistics

1. Click Monitor->Port Information->Detail Statistics
2. This page displays detailed statistics about the received and transmit packets on the port.

The screenshot shows the 'Detail Statistics' page for port e0/0/1. The sidebar on the left includes: System Information, Port Information (selected), Basic Information, Basic Statistics, Detail Statistics, Optical Module, ONT Information, and Syslog Information. The main content area has a 'Port Selection' dropdown set to 'e0/0/1'. Below it is the 'Port Detail Statistics' table:

Port Detail Statistics			
Pkts 64 Bytes	0	Pkts 65-127 Bytes	0
Pkts 128-255 Bytes	0	Pkts 256-511 Bytes	0
Pkts 512-1023 Bytes	0	Pkts 1024-1518 Bytes	0
RX Unicast Pkts	0	TX Unicast Pkts	0
RX Multicast Pkts	0	TX Multicast Pkts	0
RX Broadcast Pkts	0	TX Broadcast Pkts	0
RX Frames	0	TX Frames	0
RX Bytes	0	TX Bytes	0
RX Discarded Pkts	0	TX Discarded Pkts	0
RX Errors	0	TX Errors	0

At the bottom of the statistics section are 'Refresh' and 'Clear' buttons.

Figure 1-5

1.2.4 Optical Module

1. Click Monitor->Port Information->Optical Module
2. This page displays the basic information and DDM information of the optical module of the uplink port.

The screenshot shows the 'Optical Module' page. The sidebar on the left includes: System Information, Port Information, Basic Information, Basic Statistics, Detail Statistics, Optical Module (selected), ONT Information, and Syslog Information. The main content area has a section for 'Optical Module Basic Information' with the following table:

Port	Transceiver	Compliance	Connector	WaveLength(nm)	Transfer Distance(m)	DDM	Serial Number	Date	Vendor
gpon0/2/2	SFP/SFP+	GPON	SC	1490	20000(9um)	yes	202111080001	2021-11-08	OEM

Below this is the 'Optical Module DDM Information' section with the following table:

Port	Temperature(°C)	Voltage(V)	Bias Current(mA)			RX Power(dBm)			TX Power(dBm)		
			Current	High Threshold	Low Threshold	Current	High Threshold	Low Threshold	Current	High Threshold	Low Threshold
gpon0/2/2	33	3.21	8.66	70	2	-21.61	-11	-29.21	5.8	7.8	3.5

A 'Refresh' button is located at the bottom of the DDM information section.

Figure 1-6

1.3 ONT Status

1. Click Monitor->ONT information->ONT Status
2. This page displays ONT's SN, model, Up Duration, run state and member state, etc.

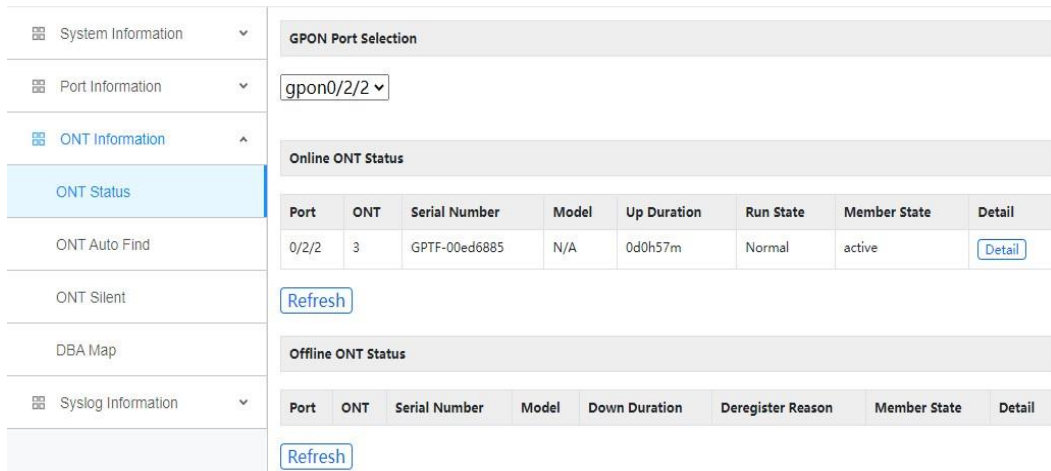


Figure 1-7

1.3.1 Overview

1. Click Monitor->ONT information->ONT Status->Detail->Overview
2. This page displays ONT's Description, Run state and Distance, etc.

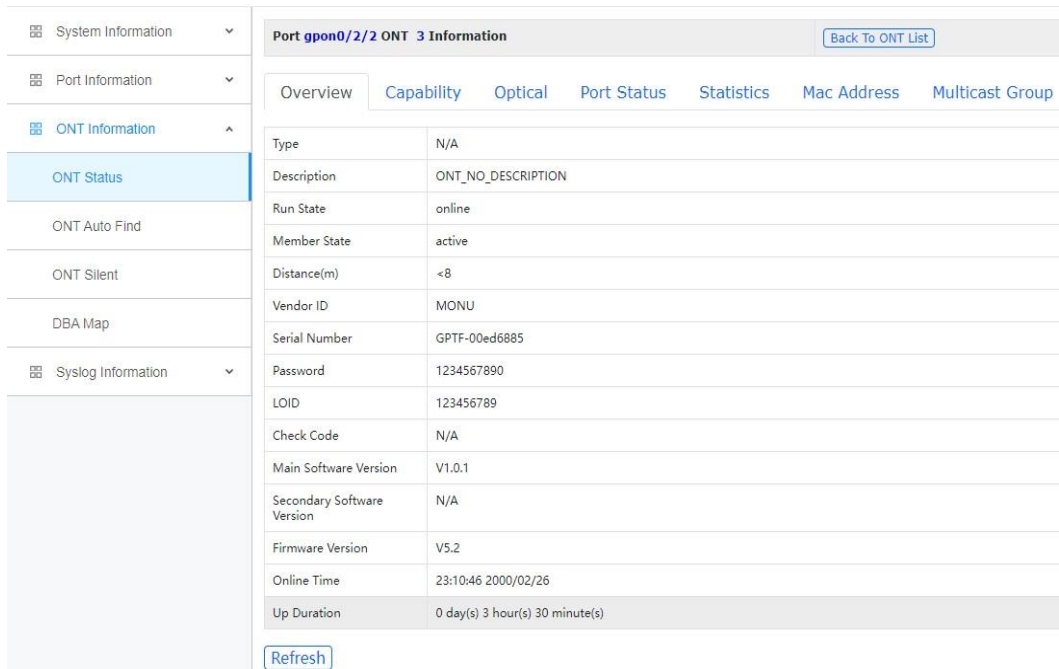


Figure 1-8

1.3.2 Capability

1. Click Monitor->ONT information->ONT Status->Detail->Capability
2. This page displays ONT's capability information.

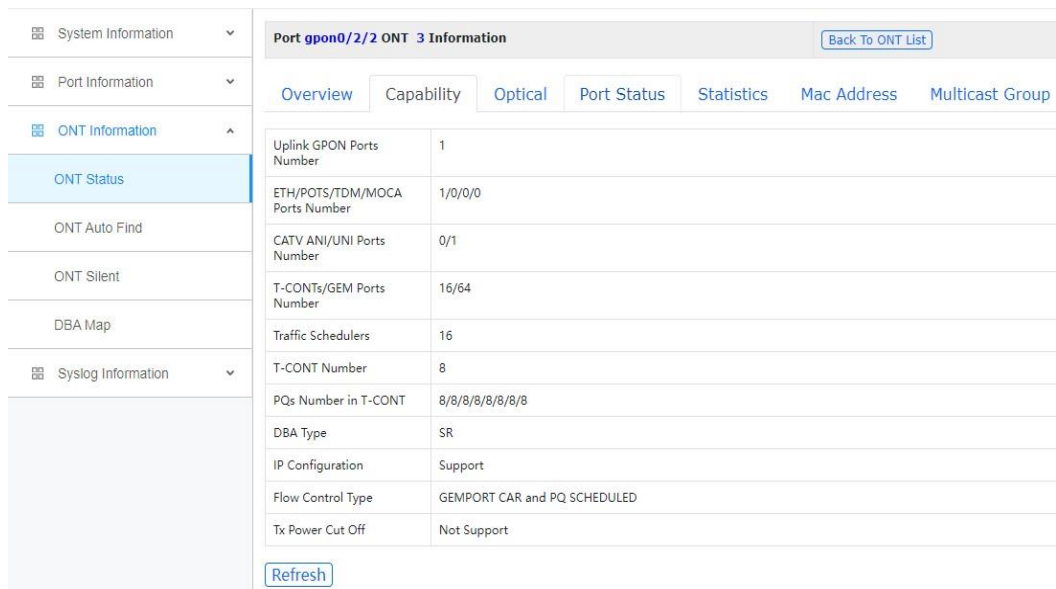


Figure 1-9

1.3.3 Optical

1. Click Monitor->ONT information->ONT Status->Detail->Optical
2. This page displays ONT's optical module power information.

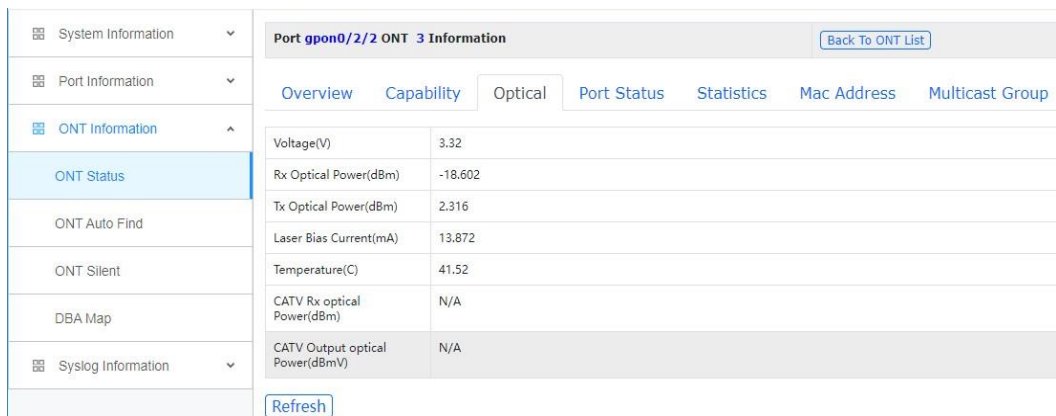


Figure 1-10

1.3.4 Port Status

1. Click Monitor->ONT information->ONT Status->Detail->Port Status
2. This page displays ONT's ethernet port operation state and link state, etc.

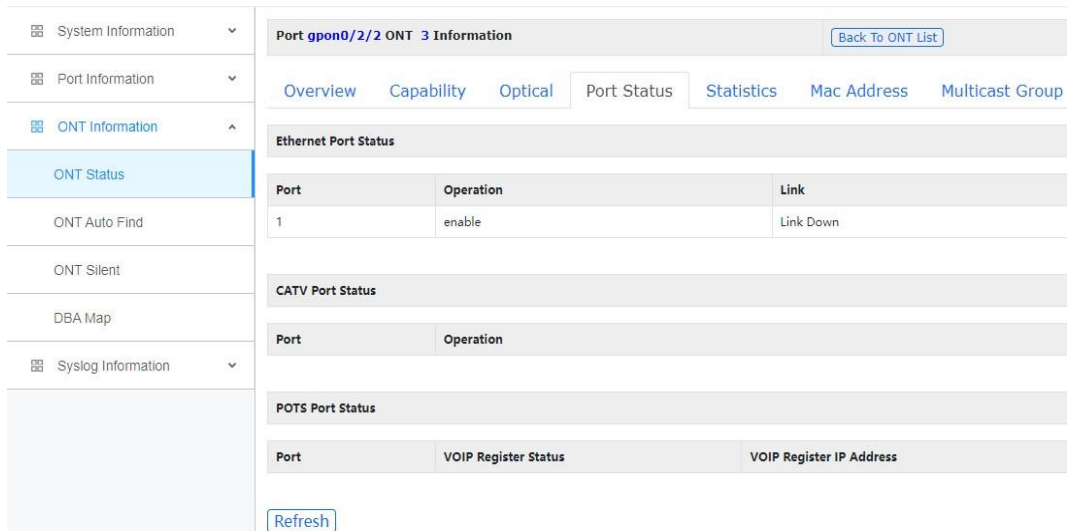


Figure 1-11

1.3.5 Statistics

1. Click Monitor->ONT information->ONT Status->Detail->Statistics
2. This page displays ONT's ethernet and GEM traffic statistics.

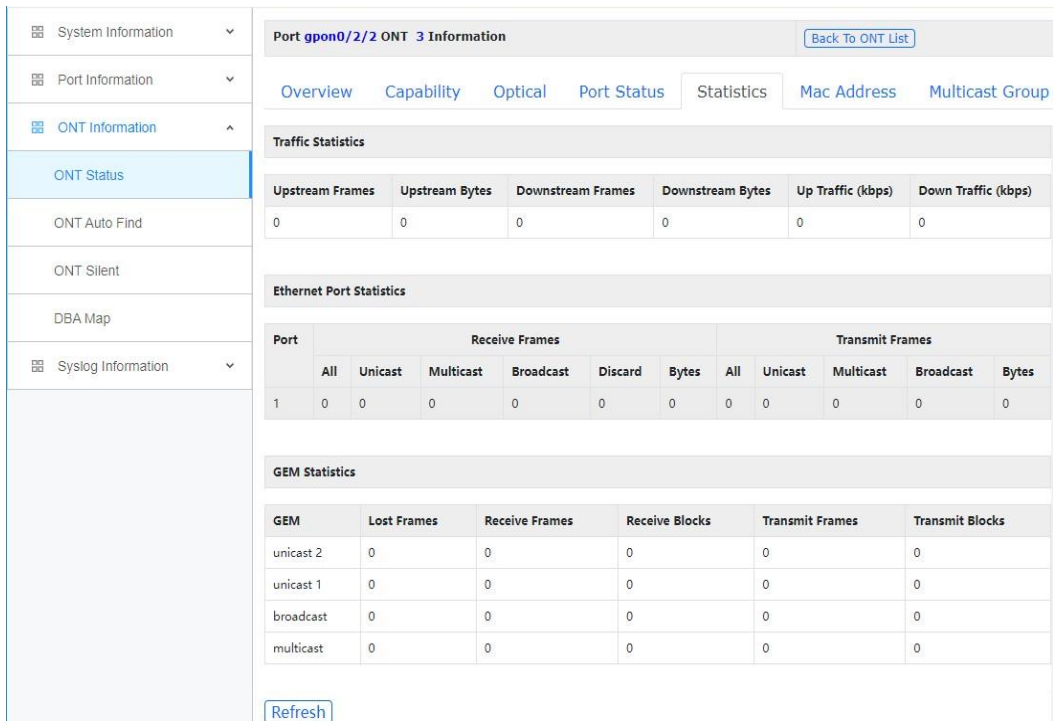


Figure 1-12

1.3.6 MAC Address

1. Click Monitor->ONT information->ONT Status->Detail->Mac Address
2. This page displays ONT's MAC address learned by ONT.

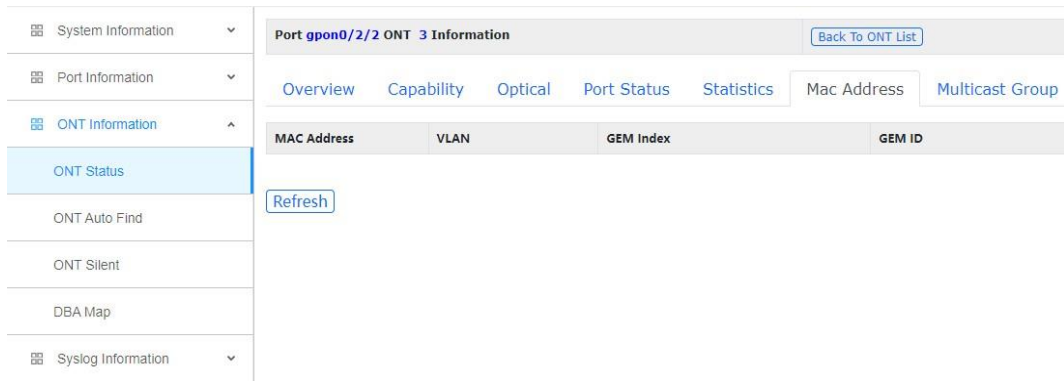


Figure 1-13

1.3.7 Multicast Group

1. Click Monitor->ONT information->ONT Status->Detail->Multicast Group
2. This page displays ONT's multicast group learned by ONT.

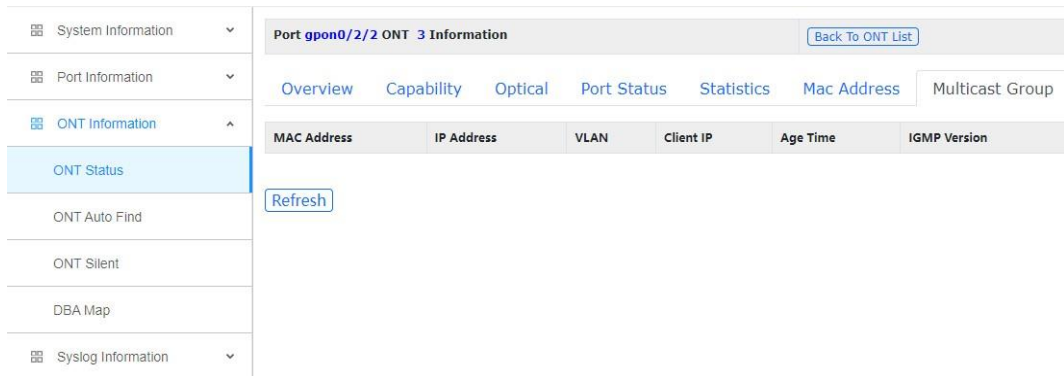


Figure 1-14

1.4 ONT Optical

1. Click Monitor->ONT information->ONT Optical
2. This page displays the optical power information of the registered ONT.

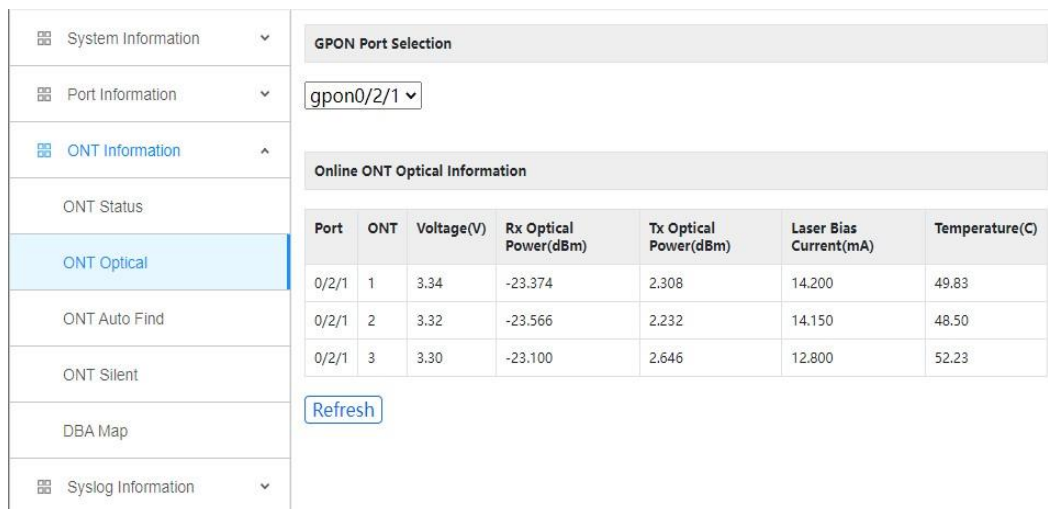


Figure 1-15

1.5 ONT Auto Find

1. Click Monitor->ONT information->ONT Auto Find
2. This page displays information about ONTs that have failed authentication.

The screenshot shows the 'ONT Auto Find' page. On the left, a navigation menu includes 'System Information', 'Port Information', 'ONT Information' (expanded), 'ONT Status', 'ONT Auto Find' (selected), 'ONT Silent', 'DBA Map', and 'Syslog Information'. The main area displays 'GPON Port Selection' as 'gpon0/2/2'. Below this is the 'ONT Auto Find List' table:

Port	Index	Serial Number	Equipment ID	Last Find Time	Find Count	Detail
0/2/2	0	GPTF-00ed6885	MONUV691	2000/02/27 03:21:11	3	Detail

A 'Refresh' button is located below the table.

Figure 1-16

1.5.1 ONT Auto Find Detail Information

1. Click Monitor->ONT information->ONT Auto Find->Detail
2. This page displays ONT's auto find detail information by find list index.

The screenshot shows the 'ONT Auto Find Detail Information' page. The left sidebar is the same as in Figure 1-16. The main area displays 'Port gpon0/2/2 Index 0 Auto Find Information' with a 'Back To List' button. The details are as follows:

Serial Number	GPTF-00ed6885
Password	1234567890
LOID	123456789
Check Code	N/A
Vendor ID	MONU
Main Software Version	V1.0.1
Firmware Version	V5.2
Equipment ID	MONUV691
Unregistered Reason	AUTH_PARAM_NOT_MATCH
First Find Time	2000/02/27 03:20:27
Last Find Time	2000/02/27 03:22:17
Find Count	6

A 'Refresh' button is located at the bottom of the page.

Figure 1-17

1.6 ONT Silent

1. Click Monitor->ONT information->ONT Silent
2. This page displays the ONU's configuration of failed authentication silent and offline silent.

The screenshot shows a web interface for monitoring ONT information. The left-hand navigation pane includes sections for System Information, Port Information, ONT Information (with sub-items: ONT Status, ONT Auto Find, ONT Silent, DBA Map), and Syslog Information. The 'ONT Silent' option is currently selected. The main display area shows the 'GPON Port Selection' dropdown menu set to 'gpon0/2/2'. Below this is the 'ONT Silent List' table, which contains the following data:

Port	Index	Serial Number	Expire Time	Reason
0/2/2	0	GPTF-00ed6885	5	auth-fail

A 'Refresh' button is positioned below the table.

Figure1-18

1.7 DBA Map

1. Click Monitor->ONT information->DBA Map
2. This page displays ONT DBA assignment information of GPON interface.

The screenshot displays the 'DBA Map' configuration page. The left sidebar has 'DBA Map' selected. The main area shows the 'GPON Port Selection' dropdown set to 'gpon0/2/2'. The 'DBA Map Summary' table provides the following information:

Assign Success Total Entries	Assign Success Total Fixed Bandwidth (kbps)	Assign Success Total Assured Bandwidth (kbps)
1	0	0

Below the summary is the 'DBA Map List' table:

Port	ONT	T-CONT Index	DBA Index	Fixed Bandwidth (kbps)	Assured Bandwidth (kbps)	Max Bandwidth (kbps)	Assign
gpon0/2/2	3	1	0	0	0	10240	success

A 'Refresh' button is located at the bottom of the page.

Figure 1-19

1.8 Syslog Information

1. Click Monitor->Syslog Information
2. This page displays the system log. The log records up to 10,000 entries, and it will be automatically overwritten when exceeded.

System Information ^	Syslog Log Information																										
Device Information	Refresh																										
Port Information v																											
ONT Information v																											
Syslog Information ^																											
	<table border="1"> <thead> <tr> <th style="background-color: #e0e0e0;">Index</th> <th style="background-color: #e0e0e0;">Log Information</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>00:37:15: %CMDLINE-6-COMMAND: (0) admin: display dba-map interface gpon 2/2</td> </tr> <tr> <td>2</td> <td>00:37:02: %CMDLINE-6-COMMAND: (0) admin: display ont info interface gpon all</td> </tr> <tr> <td>3</td> <td>00:28:26: %CMDLINE-6-COMMAND: (0) admin: display version</td> </tr> <tr> <td>4</td> <td>00:27:20: %CMDLINE-6-COMMAND: (0) admin: display utilization interface</td> </tr> <tr> <td>5</td> <td>00:24:50: %CMDLINE-6-COMMAND: (0) admin: display ont info interface gpon all</td> </tr> <tr> <td>6</td> <td>00:24:06: %CMDLINE-6-COMMAND: (0) admin: display ont info interface gpon all</td> </tr> <tr> <td>7</td> <td>00:23:58: %CMDLINE-6-COMMAND: (0) admin: display ont info interface gpon all</td> </tr> <tr> <td>8</td> <td>00:23:42: %CMDLINE-6-COMMAND: (0) admin: display ont info interface gpon all</td> </tr> <tr> <td>9</td> <td>00:23:39: %CMDLINE-6-COMMAND: (0) admin: ont auto-config</td> </tr> <tr> <td>10</td> <td>00:23:01: %CMDLINE-6-COMMAND: (0) admin: display version</td> </tr> <tr> <td>11</td> <td>00:06:20: %CMDLINE-6-COMMAND: (0) admin: display dba-profile bound-info all</td> </tr> <tr> <td>12</td> <td>00:06:05: %CMDLINE-6-COMMAND: (0) admin: display current-config</td> </tr> </tbody> </table>	Index	Log Information	1	00:37:15: %CMDLINE-6-COMMAND: (0) admin: display dba-map interface gpon 2/2	2	00:37:02: %CMDLINE-6-COMMAND: (0) admin: display ont info interface gpon all	3	00:28:26: %CMDLINE-6-COMMAND: (0) admin: display version	4	00:27:20: %CMDLINE-6-COMMAND: (0) admin: display utilization interface	5	00:24:50: %CMDLINE-6-COMMAND: (0) admin: display ont info interface gpon all	6	00:24:06: %CMDLINE-6-COMMAND: (0) admin: display ont info interface gpon all	7	00:23:58: %CMDLINE-6-COMMAND: (0) admin: display ont info interface gpon all	8	00:23:42: %CMDLINE-6-COMMAND: (0) admin: display ont info interface gpon all	9	00:23:39: %CMDLINE-6-COMMAND: (0) admin: ont auto-config	10	00:23:01: %CMDLINE-6-COMMAND: (0) admin: display version	11	00:06:20: %CMDLINE-6-COMMAND: (0) admin: display dba-profile bound-info all	12	00:06:05: %CMDLINE-6-COMMAND: (0) admin: display current-config
Index	Log Information																										
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11	00:06:20: %CMDLINE-6-COMMAND: (0) admin: display dba-profile bound-info all																										
12	00:06:05: %CMDLINE-6-COMMAND: (0) admin: display current-config																										

Figure 1-20